

4/008

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant

Sherman, et al.

Group Art Unit 1652

Appl. No.

09/501,730

Filed

February 10, 2000

For

AGGREGATE-FREE URATE

OXIDASE FOR

PREPARATION OF NON-IMMUNOGENIC POLYMER

CONJUGATES

Examiner

Pak, Y.

DECLARATION OF L. DAVID WILLIAMS, Ph.D. SUBMITTED UNDER 37 C.F.R. § 1.131

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

- 1. 1, L. David Williams, Ph.D., am a named inventor on the above-captioned patent application.
- 2. I have read and understood the specification and the claims of the above-captioned patent application.
- 3. I have read and understood Caliceti et al. *Bioconjugate Chem.* 1999, 10, 638-646, which has a web publication date of June 2, 1999.
- 4. Exhibit A, attached hereto, is a copy of several pages of one of my laboratory notebooks.
- 5. Pages 1 and 2 of Exhibit A show the results of a purification procedure that I conducted prior to June 2, 1999. The tracings shown on pages 1 and 2 are ion-exchange and size-exclusion chromatograms, respectively, of the product of my purification steps. The areas

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under the peaks of the chromatograms on pages 1 and 2 show the relative abundance of several aggregates of uricase.

- 6. The areas under the peaks assigned to tetramers are much larger than the area under the peaks assigned to octamers or other aggregates. These data demonstrate the purification of uricase that is substantially free of aggregates larger than tetramers.
- 7. Therefore, prior to June 2, 1999 I had invented and was in possession the subject matter claimed in the above-captioned patent application.
- 8. I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

October 4, 2001

Date

L. David Williams, Ph.D.

S.\DOCS\SKT\SKT-1775.DOC 100301

19-52 tinear5_H1_UV_280rm_01 linear5_ConcB_01 fractions_1 Edit - Hun dustription AU HEJBOD Hethod base : ml 2.0 ***** Hain method ***** 0.00 CONC B 0.0 00000 t I Inam U-188% C kom 130 to 250 ml. 1.0 0.00 RECURBER SPEED 0.50 130.00 CONC_8 250.00 CONC_8 0 0 100.0 100 270.00 CONC_B 100.0 RUN_LOG Method file name LINEARS.FMT Kun by LDW 8:52:26 am Config: Hethod base is mt Config: Injection valve is valve No. 1 Config: Pump ABB is P-500, calibration 110.00 Config: Pump C is P-1, calibration 150.00 Config: UV-H -> Monitor 1, Input range = 100 mV Method start. Result name LINEARS.FRS 80 0.00 Tube No 1 80.50 Auto: 10:13:02 am Pause 80.50 CONTINUE 10:16:54 um Tube No 2 130.02 Auto: 134.02 Auto: 138.01 Auto: Tube No 4 Tube No 5 142.02 AUTO: AULO: Tube No 6 150.01 Auto: Tube No 7 AUTO: 154.01 Tube No 9 Tube No 10 157.98 Auto: 60 161,99 Auto: 165.99 Auto: Tube No 11 169.97 Auto: TUDE No 12 11:46:34 as 1.0 170.05 Hanual: Hold 173.96 Auto: Tube No 13 177.96 Auto: Tube No 14 181.95 Auto: 182.03 185.96 Continue Tube No 16 11:58:33 am Manual: Auto: tetrumers ha Auto: Manual; 189 96 Tube No 17 12:08:30 pm 191.97 Hold 193.95 Auto: Tube No 18 AULO: AULO: 197.94 lube No 19 201.94 205.94 Auto: TUDE No 21 Manuat Continue 12:24:32 pm 208.00 Tube No 22 Tube No 23 209.96 Auto: 213.93 Auto: Auto: Tube No 24 221.93 Autú. Tube No 25 Auto: aggregates 0.5 229.92 23**3** 91 Auto: Tube No 27 Tube No 28 237.91 Tube No 29 241.90 Tube No 30 Auto: 245.90 Tube No 31 AUTO; 20 249.89 253.87 Auto: Tube No 32 Tube No 33 Auto: 257.87 Auto: Tube No 34 Tube No 35 261.86 Auto: 265.87 269.87 273.85 277.85 Auto: Tube No 37 lube No 38 Auto: Auto: Tube No 39 Tube No 40 281.84 Auto: POOL 285.84 AUTO: Tube No 41 298.02 Auto; Hethod end 1:54:38 pe 0.0 30 32 34 36 38 48 43 250 mt 100 ntinued on Page 53 Read and Understood By **PAGE EXHIBIT** Date Signed Date

4907 = 1.22 ml In M He at 10:15. hgain, yellow who as sold unter well suspended. Refrigerate until what to MAN dispurse (~1 displace)
10:59:23 - 11:04:10. Ring tube with 0.12 ml m M He after reducing form under gestich vacuum had nouse to MAN at 11:07 had 2 ml conformed the buffer to 166-tube. Washin @13:38 = 101 = 0.05 mm × 10⁻² and the 11:18:00 remove 20 l mm sample for W montaining it was tenged to 11:18:00 remove 20 l mm sample for W montaining it was tenged to 11:15 mm (see LDW 012:14.KD). Drop 0.1 mm W cell, brechnight, Dilute 10 of the DW 012:14.KD). Drop 0.1 mm W cell, brechnight, Dilute 10 of the 10:212.01. 1861 submit called as 7.5) 20 Continued on Page 5

EXHIBIT A PAGE 3 OF 4

EXHIBIT A PAGE 4 OF 4

Continued on Page

Read and Understood By

Ward Safer Signed

Date